Recover cells/organoids from ECM in 15 minutes

TheWell BIOSCIENCE

VitroGel® Organoid Recovery Solution

Non-enzymatic cell harvesting solution for quick and efficient recovery of cells/organoids from hydrogel or an animal-based ECM.

Fast ECM Dissociation

2 min dissociation for animal-based ECM or 15 min for VitroGel® hydrogel for intact organoids/cells.

High Recovery and Cell Viability

Yields high-quality cells/organoids for downstream analysis and expansion.

Enzyme-free Formulation

Stable and safe formulation.
Long shelf life. (24 months).
No cold pack shipping.

Safe Harvesting

Recovery of intact organoids or 3D cells with high viability.

Room Temp Operation

Easy-to-use with operation at room temperature.

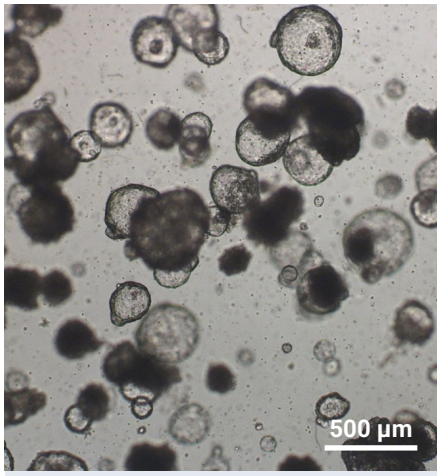
3D and 2D ECM

Also supports cell recovery from 2D ECM coating plates.

VitroGel® Organoid Recovery Solution can recover cells/organoids cultured with VitroGel® hydrogels or an animal-based ECM more quickly and efficiently while maintaining high cell viability during the recovery process. The cell harvesting solution is enzyme-free and room temperature stable, with a neutral pH. This solution can also be used to harvest cells from 2D ECM coating plates. Harvested cells can be sub-cultured for both 3D and 2D cultures. VitroGel® Organoid Recovery Solution supports a high recovery rate and cell viability of intact cells/organoids for passaging, cryopreservation, or subsequent biochemical analysis.

VitroGel® Organoid Recovery Solution compared to others

	VitroGel®	Company C	Company R	Company S
Dissociation From Animal-based ECM	**2 min**	≈60 min	≈60 min	>30 min
High Cell Recovery & Cell Viability	●	◒	◒	◒
Room Temp Operation / Easy-To-Use	●			◒
Cell Recovery from 2D ECM Coating Plate	●			
No Cold Pack Shipping	●			●
Storage	**2-8°C**	2-8°C	2-8°C	15-35°C
Shelf Life	**24 mo**	3 mo	2 mo	N/A



Organoids recovered from Matrigel using VitroGel® Organoid Recovery Solution.

See Figure 1 at the back for more details.

Cell/Organoid Recovery from Animal-Based ECM* (e.g. Matrigel)

- Fast 2 minute ECM dissociation
- 10 min protocol

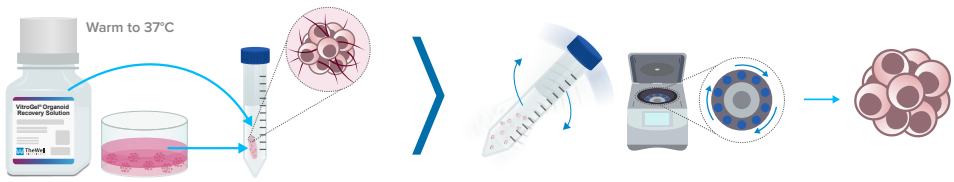
*Extracellular matrices like Matrigel, Cultrex, and Geltrex

1 Add recovery solution to cells and transfer to tube.

2 Rock tube for 2 minutes and centrifuge.

Cell/Organoid Recovery from VitroGel® Hydrogels

- 5-15 min protocol
- Improved formulation over VitroGel® Cell Harvesting Solution (MS03-100)



1 Mix recovery solution with cells.

2 Rock tube at 37°C and centrifuge.

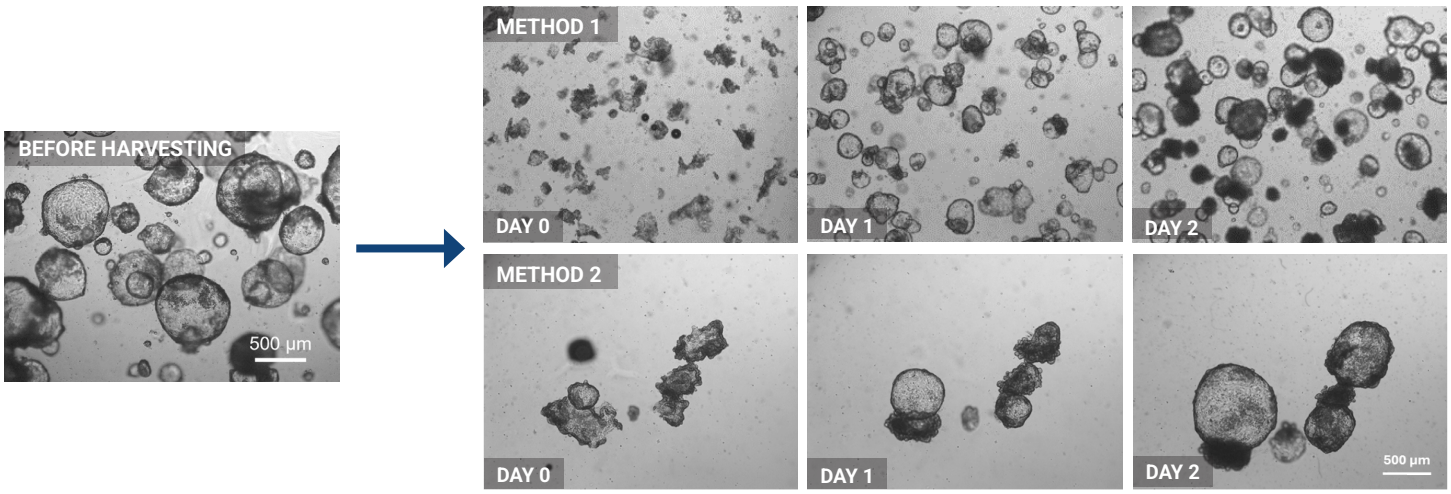


Figure 1. Organoids recovered from Matrigel using VitroGel® Organoid Recovery Solution with two methods.
Method 1: Re-suspend organoids in VitroGel® Organoid Recovery Solution by pipetting to break organoids into small fragments for sub-culture/expansion.
Method 2: Rocking the tube with organoids and VitroGel® Organoid Recovery Solution mixture without using a pipette to harvest the intact organoids.
In both, VitroGel® Organoid Recovery Solution was kept in a 4°C refrigerator to maintain a low temperature before use. The organoids/Matrigel and VitroGel® Organoid Recovery Solution mixture were incubated at room temperature for 2 min before centrifuging. Day 0 images show the morphology of organoids right after harvesting with two different methods.

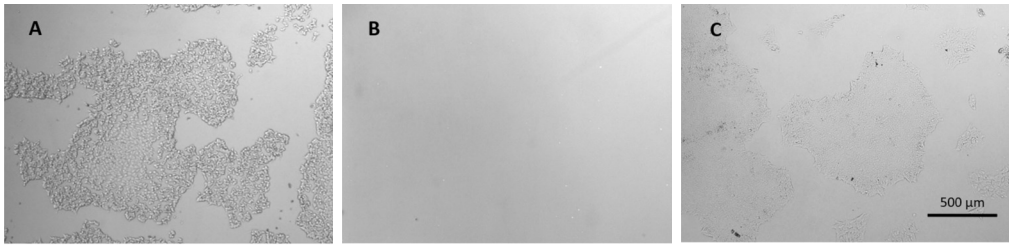


Figure 2. iPSC harvesting from 2D Matrigel coating plate. VitroGel® Organoid Recovery Solution can be used to harvest iPSC cells from a 2D Matrigel coating plate. The solution was warmed up to room temperature before use. A) Morphology of cells detaching from the Matrigel coating plate. (3 min after adding VitroGel® Organoid Recovery Solution), B) Image of the well plate after cell harvesting. (Shows all cells were removed from the Matrigel coating plate), C) Morphology of cells after re-seeding to a new Matrigel coating plate (Day 3).

Learn more about **VitroGel® Organoid Recovery Solution**

thewellbio.com/cell-harvesting/

Product	Cat No.	Size
VitroGel® Organoid Recovery Solution	MS04-100	100 mL
	MS04-500	500 mL

TheWell BIOSCIENCE
3D Cell Culture and Beyond

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